

From: [Garrett R. Leque](#)
To: [Wooten, Kim \(ECY\)](#)
Cc: [Mac Setter](#)
Subject: RE: TCE evaluation follow up - Classic Cleaners
Date: Friday, March 6, 2020 9:57:29 AM
Attachments: [Rpt_2001444 Classic Cleaners Final v1.pdf](#)

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Hi Kim,

It slipped my calendar to send you the latest indoor air results at Classic Cleaners and the adjacent business, Off the Top. Attached is the lab report. The pdf contains results for the following two samples collected on Monday, January 20, 2020:

1. IA:4:20200120 – This is a sample from inside Classic Cleaners. It was collected in the same location as previous Classic Cleaners samples, in the primary work area along the southern wall.
2. IA-OTT:1:20200120 – This is the first sample from inside Off the Top, which is the business south-adjacent to Classic Cleaners. The sample was collected from the primary work area, consistent with guidance and in coordination with the business owner.

The TCE results for both samples are below the Workplace Scenario Short-term level of 7.5 ug/m³ shown in Table 1 of Ecology's Implementation Memorandum No. 22. We will continue monitoring. Feel free to give me a call if you have any questions.

Thank you,

Garrett

Garrett R. Leque
Senior Geologist | GeoEngineers, Inc.

Telephone: 253.722.2413

Mobile: 253.312.7958

Email: gleque@geoengineers.com

600 Dupont Street
Bellingham, WA 98225
www.geoengineers.com

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From: Wooten, Kim (ECY) <kiwo461@ECY.WA.GOV>

Sent: Thursday, January 23, 2020 4:20 PM

To: Garrett R. Leque <gleque@geoengineers.com>

Cc: Mac Setter <macsetter@hotmail.com>

Subject: RE: TCE evaluation follow up - Classic Cleaners

[EXTERNAL]

Thanks for the update – I'll keep an eye out for the results.

Kim

From: Garrett R. Leque <gleque@geoengineers.com>
Sent: Thursday, January 23, 2020 10:07 AM
To: Wooten, Kim (ECY) <kiwo461@ECY.WA.GOV>
Cc: Mac Setter <macsetter@hotmail.com>
Subject: RE: TCE evaluation follow up - Classic Cleaners

THIS EMAIL ORIGINATED FROM OUTSIDE THE WASHINGTON STATE EMAIL SYSTEM - Take caution not to open attachments or links unless you know the sender AND were expecting the attachment or the link

Hi Kim,

Just an FYI that we performed the sampling including at Off the Top and we expect results next week. I'll forward once I have them.

Thanks,

Garrett

Garrett R. Leque
Senior Geologist | GeoEngineers, Inc.
Telephone: 253.722.2413
Mobile: 253.312.7958
Email: gleque@geoengineers.com

600 Dupont Street
Bellingham, WA 98225
www.geoengineers.com

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From: Wooten, Kim (ECY) <kiwo461@ECY.WA.GOV>
Sent: Thursday, November 14, 2019 10:33 AM
To: Garrett R. Leque <gleque@geoengineers.com>
Subject: TCE evaluation follow up - Classic Cleaners

[EXTERNAL]

Hi Garrett,

Attached is a copy of a letter that went in the mail to Mac Setter yesterday. Let me know if you have any questions about the contents of the letter.

Kim Wooten, Ph.D.

Department of Ecology
Toxics Cleanup Program, Northwest Regional Office
(425) 649-7040
kiwo461@ecy.wa.gov

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anyone else.



GeoEngineers, Inc.

Garrett Leque
600 Dupont Street
Bellingham, WA 98225

RE: Classic Cleaners

Work Order Number: 2001444

January 31, 2020

Attention Garrett Leque:

Fremont Analytical, Inc. received 2 sample(s) on 1/27/2020 for the analyses presented in the following report.

Volatile Organic Compounds-EPA Method TO-15 (SIM)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: GeoEngineers, Inc.
Project: Classic Cleaners
Work Order: 2001444

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2001444-001	IA:4:20200120	01/20/2020 9:20 AM	01/27/2020 5:12 PM
2001444-002	IA-OTT:1:20200120	01/20/2020 9:10 AM	01/27/2020 5:12 PM

CLIENT: GeoEngineers, Inc.

Project: Classic Cleaners

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: GeoEngineers, Inc.

WorkOrder: 2001444

Project: Classic Cleaners

Client Sample ID: IA:4:20200120

Date Sampled: 1/20/2020

Lab ID: 2001444-001A

Date Received: 1/27/2020

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds-EPA Method TO-15 (SIM)</u>								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	01/29/2020	WC
cis-1,2-Dichloroethene	0.0552	0.219	0.0200	0.0793		EPA-TO-15SIM	01/29/2020	WC
Tetrachloroethene (PCE)	6.59	44.7	0.0500	0.339		EPA-TO-15SIM	01/29/2020	WC
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	01/29/2020	WC
Trichloroethene (TCE)	0.113	0.608	0.0170	0.0914		EPA-TO-15SIM	01/29/2020	WC
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	01/29/2020	WC
Surr: 4-Bromofluorobenzene	86.0 %Rec	--	70-130	--		EPA-TO-15SIM	01/29/2020	WC



Client: GeoEngineers, Inc.

WorkOrder: 2001444

Project: Classic Cleaners

Client Sample ID: IA-OTT:1:20200120

Date Sampled: 1/20/2020

Lab ID: 2001444-002A

Date Received: 1/27/2020

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds-EPA Method TO-15 (SIM)</u>								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	01/31/2020	WC
cis-1,2-Dichloroethene	0.294	1.17	0.0200	0.0793		EPA-TO-15SIM	01/31/2020	WC
Tetrachloroethene (PCE)	5.77	39.2	0.0500	0.339		EPA-TO-15SIM	01/31/2020	WC
trans-1,2-Dichloroethene	0.0103	0.0409	0.00600	0.0238		EPA-TO-15SIM	01/31/2020	WC
Trichloroethene (TCE)	0.461	2.48	0.0170	0.0914		EPA-TO-15SIM	01/31/2020	WC
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	01/31/2020	WC
Surr: 4-Bromofluorobenzene	121 %Rec	--	70-130	--		EPA-TO-15SIM	01/31/2020	WC

Work Order: 2001444
 CLIENT: GeoEngineers, Inc.
 Project: Classic Cleaners

QC SUMMARY REPORT
Volatile Organic Compounds-EPA Method TO-15 (SIM)

Sample ID: LCS-R57026	SampType: LCS	Units: ppbv	Prep Date: 1/31/2020	RunNo: 57026							
Client ID: LCSW	Batch ID: R57026		Analysis Date: 1/31/2020	SeqNo: 1137214							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	15.3	0.0850	20.00	0	76.3	70	130				
1,1-Dichloroethene (DCE)	18.3	0.00900	20.00	0	91.7	70	130				
trans-1,2-Dichloroethene	19.3	0.00600	20.00	0	96.5	70	130				
cis-1,2-Dichloroethene	19.6	0.0200	20.00	0	98.0	70	130				
Trichloroethene (TCE)	21.8	0.0170	20.00	0	109	70	130				
Tetrachloroethene (PCE)	22.0	0.0500	20.00	0	110	70	130				
Surr: 4-Bromofluorobenzene	5.18		4.000		129	70	130				

Sample ID: MB-R57026	SampType: MBLK	Units: ppbv	Prep Date: 1/31/2020	RunNo: 57026							
Client ID: MBLKW	Batch ID: R57026		Analysis Date: 1/31/2020	SeqNo: 1137171							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0850									
1,1-Dichloroethene (DCE)	ND	0.00900									
trans-1,2-Dichloroethene	ND	0.00600									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0170									
Tetrachloroethene (PCE)	ND	0.0500									
Surr: 4-Bromofluorobenzene	3.61		4.000		90.2	70	130				

Sample ID: 2001444-002AREP	SampType: REP	Units: ppbv	Prep Date: 1/31/2020	RunNo: 57026							
Client ID: IA-OTT:1:20200120	Batch ID: R57026		Analysis Date: 1/31/2020	SeqNo: 1137173							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0850						0		30	
1,1-Dichloroethene (DCE)	ND	0.00900						0		30	
trans-1,2-Dichloroethene	0.0115	0.00600						0.01032	10.9	30	
cis-1,2-Dichloroethene	0.292	0.0200						0.2939	0.666	30	
Trichloroethene (TCE)	0.453	0.0170						0.4613	1.74	30	
Tetrachloroethene (PCE)	5.59	0.0500						5.772	3.15	30	

Work Order: 2001444
CLIENT: GeoEngineers, Inc.
Project: Classic Cleaners

QC SUMMARY REPORT
Volatile Organic Compounds-EPA Method TO-15 (SIM)

Sample ID: 2001444-002AREP	SampType: REP	Units: ppbv	Prep Date: 1/31/2020	RunNo: 57026							
Client ID: IA-OTT:1:20200120	Batch ID: R57026		Analysis Date: 1/31/2020	SeqNo: 1137173							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	4.30	4.000	107	70	130	0
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NOTES:

R - High RPD observed, spike recovery is within range.

Work Order: 2001444
CLIENT: GeoEngineers, Inc.
Project: Classic Cleaners

QC SUMMARY REPORT
Volatile Organic Compounds-EPA Method TO-15 (SIM)

Sample ID: LCS-R56994	SampType: LCS	Units: ppbv	Prep Date: 1/29/2020	RunNo: 56994							
Client ID: LCSW	Batch ID: R56994		Analysis Date: 1/29/2020	SeqNo: 1136331							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	2.60	0.0850	2.000	0	130	70	130				
1,1-Dichloroethene (DCE)	2.28	0.00900	2.000	0	114	70	130				
trans-1,2-Dichloroethene	2.14	0.00600	2.000	0	107	70	130				
cis-1,2-Dichloroethene	2.10	0.0200	2.000	0	105	70	130				
Trichloroethene (TCE)	1.66	0.0170	2.000	0	83.1	70	130				
Tetrachloroethene (PCE)	2.06	0.0500	2.000	0	103	70	130				
Surr: 4-Bromofluorobenzene	4.14		4.000		103	70	130				

Sample ID: MB-R56994	SampType: MBLK	Units: ppbv	Prep Date: 1/29/2020	RunNo: 56994							
Client ID: MBLKW	Batch ID: R56994		Analysis Date: 1/29/2020	SeqNo: 1136332							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0850									
1,1-Dichloroethene (DCE)	ND	0.00900									
trans-1,2-Dichloroethene	ND	0.00600									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0170									
Tetrachloroethene (PCE)	ND	0.0500									
Surr: 4-Bromofluorobenzene	3.36		4.000		83.9	70	130				

Sample ID: 2001386-001AREP	SampType: REP	Units: ppbv	Prep Date: 1/29/2020	RunNo: 56994							
Client ID: BATCH	Batch ID: R56994		Analysis Date: 1/29/2020	SeqNo: 1136334							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0850						0		30	
1,1-Dichloroethene (DCE)	ND	0.00900						0		30	
trans-1,2-Dichloroethene	ND	0.00600						0		30	
cis-1,2-Dichloroethene	ND	0.0200						0		30	
Trichloroethene (TCE)	ND	0.0170						0		30	
Tetrachloroethene (PCE)	ND	0.0500						0		30	

Work Order: 2001444
CLIENT: GeoEngineers, Inc.
Project: Classic Cleaners

QC SUMMARY REPORT
Volatile Organic Compounds-EPA Method TO-15 (SIM)

Sample ID: 2001386-001AREP	SampType: REP	Units: ppbv	Prep Date: 1/29/2020	RunNo: 56994							
Client ID: BATCH	Batch ID: R56994		Analysis Date: 1/29/2020	SeqNo: 1136334							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	3.61		4.000		90.2	70	130		0		I

NOTES:

I - Indicates an analyte with an internal standard that does not meet established acceptance criteria.

Client Name: **GEIB**
 Logged by: **Clare Griggs**

Work Order Number: **2001444**
 Date Received: **1/27/2020 5:12:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
Air Samples
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Garrett Leaque"/>	Date:	<input type="text" value="1/27/2020"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirming TO15 method."/>		
Client Instructions:	<input type="text" value="TO15 SIM"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

